PATENT COOPERATION TREATY

PCT

From the INTERNATIONAL SEARCHING AUTHORITY

To: Samir A. Bhavsar Baker Botts LLP

Facsimile No. 571-273-3201 Form PCT/ISA/220 (January 2004)

2001 Ross Avenue Dallas, Texas 75201	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1)	
	(day/month/year) 30 APR 2007	
Applicant's or agent's file reference 069547.0367	FOR FURTHER ACTION See paragraphs 1 and 4 below	
International application No. PCT/US 06/30636	International filing date (day/month/year) 04 August 2006 (04.08.2006)	
Applicant ESPEED, INC.		
Authority have been established and are transmitted her Filing of amendments and statement under Article I: The applicant is entitled, if he so wishes, to amend the o When? The time limit for filing such amendmen international search report.	9: claims of the international application (see Rule 46): nts is normally two months from the date of transmittal of the	
Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35 For more detailed instructions, see the notes on the accompanying sheet 2. The applicant is hereby notified that no international search report will be established and that the declaration under		
Article 17(2)(a) to that effect and the written opinion of 3. With regard to the protest against payment of (an) add the protest together with the decision thereon happlicant's request to forward the texts of both the	the International Searching Authority are transmitted herewith. ititional fee(s) under Rule 40.2, the applicant is notified that: as been transmitted to the International Bureau together with the her protest and the decision thereon to the designated Offices. a applicant will be notified as soon as a decision is made.	
International Stureau. If the applicant wishes to avoid or per application, or of the priority claim, must reach file internation before the completion of the technical preparations for internations. The application are substituted in the properties of the priority data, and international preliminary examinational Bureau will send international preliminary examinational Bureau will send international preliminary examination for the properties of the public better than the feet public better than the feet public better than the priority data, but only in respect of examination must be filled if the applicant wishes to postopone it date (in some Offices even laterly, otherwise, the applicant states acts for entry into the national phase before those designated of in respect of other designated Offices, the time limit of 30 m months.	he written opinion of the International Searching Authority to the a copy of such comments to all designated Offices unless an he established. These comments would also be made available to priority date. Some designated Offices, a demand for international preliminary to entity into the national plause until 36 months from the priority of the cutty into the national plause until 36 months from the prescribed offices. Offices were designed of the priority date, perform the prescribed offices. Offices were designed of the priority date, perform the prescribed of the priority date, perform the performance of the perform	
Name and mailing address of the ISA/US Authorized officer: Mail Stop PCT, Aftr. ISA/US Lee W. Young Commissioner for Patents Lee W. Young P. Do. or 1450, Abandida, Virginia 22315-1450		

PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

FOR FURTHER

ACTION

(PCT Article 18 and Rules 43 and 44)

see Form PCT/ISA/220 as well as, where applicable, item 5 below.

International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/US 06/30636	04 August 2006 (04.08.2006)	04 August 2005 (04.08,2005)			
Applicant ESPEED, INC.					
according to Article 18. A copy is being This international search report consists	en prepared by this International Searching A g transmitted to the International Burcau. s of a total of sheets. a copy of each prior art document cited in this s				
1. Basis of the report					
	e international search was carried out on the ba	sis of:			
a translation of the in	lication in the language in which it was filed nternational application into	, which is the language			
	ished for the purposes of international search (
b. With regard to any nucleo	tide and/or amino acid sequence disclosed in	the international application, see Box No. I.			
2. Certain claims were foun	d unsearchable (see Box No. II)				
3. Unity of invention is lack	ing (see Box No. III)				
4. With regard to the title,					
the text is approved as sub	the text is approved as submitted by the applicant				
the text has been established	ed by this Authority to read as follows:				
5. With regard to the abstract,					
the text is approved as sub	mitted by the applicant				
the text has been established	ed, according to Rule 38.2(h), by this Authority on the date of mailing of this international searce				
6. With regard to the drawings,					
a. the figure of the drawings to be	published with the abstract is Figure No. 1				
as suggested by the	applicant				
as selected by this A	as selected by this Authority, because the applicant failed to suggest a figure				
=	as selected by this Authority, because this figure better characterizes the invention				
b. none of the figures is to be	published with the abstract				

Form PCT/ISA/210 (first sheet) (April 2005)

Applicant's or agent's file reference

069547.0367

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 06/306

		1 01100 000000		
Box No. IV	Text of the abstract (Continuation of item 5 of the first sheet)			
An apparatus for processing trading orders comprising first and second orders. The first and second orders are associated with a product and comprise a displayed quantity and a reserved quantity. The apparatus receives a counterorder associated with the product and fils the displayed quantity of the first and second order with a respective corresponding portion of the counterorder, and allocates a first additional portion of the counterorder to the first order.				

INTERNATIONAL SEARCH REPORT

International application No. PCT/US 06/30636

۹.	CLASSIFICATION	OF SUBJECT	MATTE

IPC(8) G06Q 40/00 (2007.01) USPC 705/37

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) G06Q 40/00 (2007.01) USPC 705/37

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched 705/35, 36; 700/90, 91, 92

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) USPTO WEST (PGPB, USPT, EPAB, JPAB); DIALOG PRO; GOOGLE

Search Terms Used: counter order, reserve, quantity, trading, aggregate, order, market, buy

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
×	US 2004/0143538 A1 (KORNHAMMER et al.) 22 July 2004 (22.07.2004), entire document	1-30
A	US 2004/0236662 A1 (KORNHAMMER et al.) 25 November 2004 (25.11.2004) enfire document	1-30
A	US 2005/0027635 A1 (MONROE et al.) 3 February 2005 (03.02.2005), entire document	1-30
A	US 2005/0055304 (LUTNICK, H.W. et al) 10 March 2005 (10.03.2005), entire document, especially para [0039]	1-30
A	US 2005(0171890 A1 (DALEY, T.J. et al) 4 August 2005 (04.08.2005), entire document especially para [0003]	1-30

	Further documents are listed in the continuation of Box C	: 🗆
	Special categories of cited documents: 'A' document defining the general state of the art which is not consider to be of particular relevance.	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is		considered novel or cannot be considered to involve an inventive
	cited to establish the publication date of another citation or of special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or of means	her "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is
	"P" document published prior to the international filing date but later the priority date claimed	
ı	Date of the actual completion of the international search	Date of mailing of the international search report
27 February 2007 (27.02.2007)		3 0 APR 2007
ı	Name and mailing address of the ISA/US	Authorized officer:
	Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450	Lee W. Young PCT Helpdesk: 571-272-4300
ı	Facsimile No. 571-273-3201	PCT OSP: 571-272-7774

Form PCT/ISA/210 (second sheet) (April 2005)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY					
To: Samir A. Bhavsar Baker Botts LLP 2001 Ross Avenue Dallas, Foxas 75201		PCT WRITTEN OPINION OF THE			
	,		INTERNATIONAL SEARCHING AUTHORITY		
				(PCT Rule 43bis.1)	
			Date of mailing (day/month/year)	30 APR 2007	
1	's or agent's file reference		FOR FURTHER A		
069547.				See paragraph 2 below	
	nal application No. 06/30636	International filing date		Priority date (day/month/year)	
		04 August 2006 (04		04 August 2005 (04.08.2005)	
IPC(8) - USPC -	nal Patent Classification (IPC) (G06Q 40/00 (2007.01) 705/37	or both national classifica	tion and IPC		
Applicant	ESPEED, INC.				
L					
1. This	opinion contains indications rel	ating to the following iter	ns:		
	Box No. I Basis of the op				
	Box No. II Priority				
Box No. III Non-establishment of opinion with regard to novelty, inventive s			e step and industrial applicability		
	Box No. IV Lack of unity	of invention			
	Box No. V Reasoned statement under Rule 43bis. 1(a)(i) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement				
	Box No. VI Certain docum	ents cited			
	Box No. VII Certain defects	in the international appli	ication		
	Box No. VIII Certain observ	ations on the internationa	l application		
2 6110	THER ACTION				
FORTIERA C. ITOY. ITOY. THE ACTION OF THE INTERPRETATION OF THE ACTION OF TH					
If this	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form				
PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.					
3. For further details, see notes to Form PCT/ISA/220.					
Name :		Data of completic of	Lie anining	Authorized officer:	
Mail Stop P	mailing address of the ISA/US CT, Attn: ISA/US	Date of completion of t	nis opinion	Authorized officer: Lee W. Young	
P.O. Box 14	ner for Patents 50, Alexandria, Virginia 22313-1450	27 February 2007	(27.02.2007)	PCT Helpdesk: 571-272-4309	
	No. 571-273-3201			PCT OSP: 571-272-7774	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US 06/30636

ox	No.	ĭ	Basis of this opinion
	Wit	t	and to the language, this opinion has been established on the basis of: the international application in the language in which it was filed translation of the international application into
2.	clai	med	pard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the invention, this opinion has been established on the basis of: of material a sequence listing table(s) related to the sequence listing
	b.	form	at of material on paper in electronic form
	c.	time	of filing/furnishing contained in the international application as filed filed together with the international application in electronic form furnished subsequently to this Authority for the purposes of search
3.		•	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filled or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filled or does not go beyond the application as filled, as appropriate, were furnished.
4.	Ade	dítio	nal comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US 06/30636

			Reasoned statement under Rule 43 <i>bis.</i> 1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Stateme	nt				
	Nove	elty (N)	Claims	5, 9, 15, 19, 25, 29	YES	
			Claims	1-4, 6-8, 10-14, 16-18, 20-24, 26-28, 30	NO NO	
	Inve	ntive step (IS)	Claims	none	YES	
			Claims	1-30	NO	
	Indu	strial applicability (IA)	Claims	1-30	YES	
			Claims	none	NO	

Citations and explanations:

Claims 1-4, 6-8, 10-14, 16-18, 20-24, 26-28, and 30 lack novelty under PCT Article 33(2) as being anticipated by US 2004/0143538 A1 to Kornhammer et al. (hereinafter 'Komhammer').

As per claims 1, 11 and 21, Kornhammer discloses an apparetus, a method and a platform for processing trading orders, comprising a memory operable to store: e first order associated with e product comprising e displeyed quentity end e reserved quentity (an order for e first financial instrument of the plurality of financial instruments is received from e first user, the order includes e first price per unit component, end a first unit quantity, the first unit quantity includes a disclosed liquidity quantity and an undisclosed liquidity quantity, see para [0016]); and a second order associated with the product and comprising a displayed quantity and a reserved quantity (a first sub-order, including the first price per unit component and the disclosed liquidity quantity and not including the undisclosed liquidity quantity, is sent to a first one of the plurality of trade execution entities for execution, see para [0031]); a processor coupled to the me and operable to; receive a counterorder associated with the product (a reciprocal order for the first financial instrument, see para [0017]); facilitate filing the displayed quantity of the first order with a corresponding portion of the counterorder, facilitate filing the displayed quantity of the second order with a corresponding portion of the counterorder (as a function of (1) the price per unit value and the disclosed liquidity quantity for the first financial instrument in the updated order book information, and (2) the first price per unit component and the first undisclosed liquidity quantity, the reciprocal order is sent to one of the plurality of trade execution entities, see para [0018]); end ellocate e first additional portion of the counterorder to the first order, the first additional portion of the counterorder to the first order. the first additional portion based at least in part on a ration of the displayed quantity of the first order to a sum of the displayed quantity of the first order and the displayed quantity of the second order (If the terget one of the trade execution entities is the first one of the trade execution entities, the method sends a second sub-order, including the first price per unit component end a second disclosed liquidity quantity equel to at least e portion of the undisclosed liquidity quantity to the target one of the trade execution entities; and then sends the reciprocal order to the target one of the trade execution entities, see para (0031)).

As per claims 2, 12 and 22, Korrhammer further discloses wherein the processor is further operable to allocate a second additional portion and of the counterforce to the second order, the second additional portion based at least in part on a ration of the displayed quantity of the second order to the sum of the displayed quantity of the first order and the displayed quantity of the second order to the sum of the displayed quantity of the first order and the displayed quantity of the second order (the method second sub-order including the first price per unit component and a second disclosed figuidity quantity to the target one of the trade execution entities; and then sends the reciprocal order to the target one of the trade execution entities; and then sends the reciprocal order to the target one of the trade execution entities; see our Route Second order to the target one of the trade execution entities; see our Route Second order to the target one of the trade execution entities; see our Route Second order to the target one of the trade execution entities; see our Route Second order to the target one of the trade execution entities; see our Route Second order to the target one of the trade execution entities; see our Route Second order to the target one of the trade execution entities; see our Route Second order to the target one of the trade execution entities; see our Route Second Order Second

As per claims 3, 13 and 23, Komhemmer further discloses wherein the first and second orders comprise buy orders (buy order (or bid), see para [0053]) and the counterorder comprises a sell order (initiated a reciprocal (i.e., opposing), see pera [0071] end claim 3).

As per claims 4, 14 and 24, Komhammer further discloses wherein the first and second orders comprise sell orders (an ECN sell order, see para (0071)) and the counterorder comprises a buy order (initiated a reciprocal (i.e., opposing), see para (0071) and claim 3).

As per claims 6, 16 and 26, Komhammer further discloses wherein the memory is further operable to store a third order (three orders have been placed, see part [00:41] essciented with the product and comprising a displayed quantity, and reserved quantity; and the processor is further operable to facilitate filling the displayed quantity of the third order prior to allocating the first additional portion of the counterorder (Fig. 3).

As per claims 7, 17 and 27, Kornhammer further discloses wherein the third order is received prior to the countercoder (The order server is configured to receive, from one or more users, orders for one or more of a plurality of financial instruments, at least some of the orders including a disclosed flouidity value and an undisclosed flouidity value, see para [0029]+00301.

As per claims 8, 18 and 28, Komhammer further discloses wherein the processor determines whether any potion of the counterformer remains unifiliate date the displayed parallels of the first corder, second order, and the third order are filled (if the fill me assess whether there is enough stock at the 24,6 file only if the order, see para (10,800); and the processor allocates the first additional portion of the counterorder to the 34,6 fill only if there proceed to counterorder to the displayed quantities of the first order, the second order, and the third order are filled fill which with information available to reciprocal orders from other of its usertraders. This permits orders to thir orts are sizing as size as is profess at 52 as is possible, in exerce of disregarding the displayed size, see para (10,7012).

-- CONTINUED IN SUPPLEMENTAL BOX --

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US 06/30636

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

v. 2 Citations and explanations

As per claims 10, 20 and 30, Korrhammer further discloses wherein the processor is further operable to determine whether any remaining portion of the counter order exists prior to allocating the first additional portion (the system considers undictosed liquidity which is being maintained in CCS 100 when routing a reciprocal order that can access multiple trade execution entities, see pars (10091)

Claims 5, 9, 15, 19, 25 and 29 lack an inventive step under PCT Article 33(3) as being obvious over Kornhammer

As part calaims 5, 15 and 25, Kornhammer discloses an apparetus as provided above with respect to claims 1, 11, 21 for apportioning tracing ordering orders based on 2x ord displayed quantity. However, does not specifically disclose wherein the displayed quantity of the first order and the displayed quantity of the second order are filled in the same sequence that the first order and the second order were received because first in first out is a common choice in orderaward received because first in first out is a common choice in determining the execution of orders. Further, using such a methodology with the method in Kornhammer voud enhance its functionality.

As per claims \$, 19 and 29, Kornhammer further discloses the processor is operable to allocate a second additional portion of the counterorder to the first order (the method sends a second sub-order; including the first price per unit component and a second claiciosed liquidity quantity cannity equal to at least a portion of the undisclosed fliquidity quantity to the strapt one of the trade execution entities; and hen search the respect or of the trade execution entities; and the search of the processor of the trade execution entities; and the search of th

time between a first order and second order with the method in Kornhammer would make the Komhammer method more useful in real world situations and thereby enhances its overall appeal. Claims 1-30 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.